

GAS-FIRED FLOOR-STANDING BOILERS



Atlantis HM ErP
Kombi Solar HE ErP
Logo ErP





The best floor-standing boiler by Sime

Sime, boasting a long and renowned tradition in the production of floor-standing boilers, offers the market a range of high-tech products to satisfy the broadest spectrum of heating and user needs:

- **Atlantis HM ErP**: premix condensing boilers with hot water storage and heating only
- **Kombi Solar HE ErP**: premix condensing boilers with

solar integration in heating and D.H.W. production. Also available in Drain Back version with additional tank to collect the heat-transfer fluid in drainback solar hot water systems.

- **Logo ErP**: natural draught cast iron boilers with low pollutant emission and hot water storage.

A complete range

Model	Integration with forced solar system	Integration with Drain Back solar system	Heating only	Storage water heater in stainless steel
Kombi Solar HE 30 ErP	✓			
Kombi Solar HE 30 DB ErP		✓		
Atlantis HM 30 T ErP			✓	
Atlantis HM 30 T SP ErP			✓*	
Atlantis HM 30/50 ErP				✓
Atlantis HM 30/110 ErP				✓
Atlantis HM 30/300 ErP	✓			✓
Logo 30/50 ErP				✓
Logo 30/110 ErP				✓

* version with plate heat exchanger to insulate boiler circuit from heating system



Atlantis HM 30/50 ErP

Atlantis HM 30/110 ErP



Logo 30/50 ErP

Logo 30/110 ErP



Kombi Solar HE 30 ErP

Product benefits

ATLANTIS HM ErP

- › Modulation ratio 1:10
- › High-efficiency modulating circulator pump and delivery and return sensors to manage heating at constant ΔT
- › Integrated climate regulation with external sensor supplied standard
- › Reduced noise emissions
- › Integrated management of up to two circuits, one with low and another with high temperature (optional)
- › Cascade management, ModBus protocol (optional)

KOMBI SOLAR HE ErP

- › High-efficiency circulator pump

- › Integrated climate regulation with external sensor supplied standard

- › Solar thermal integration to support domestic hot water and heating functions
- › High and low temperature integrated circuit management (optional)
- › High solar contribution in both mid-seasons and winter, with the possibility to connect up to 3 solar collectors without stagnation (Drain Back version)

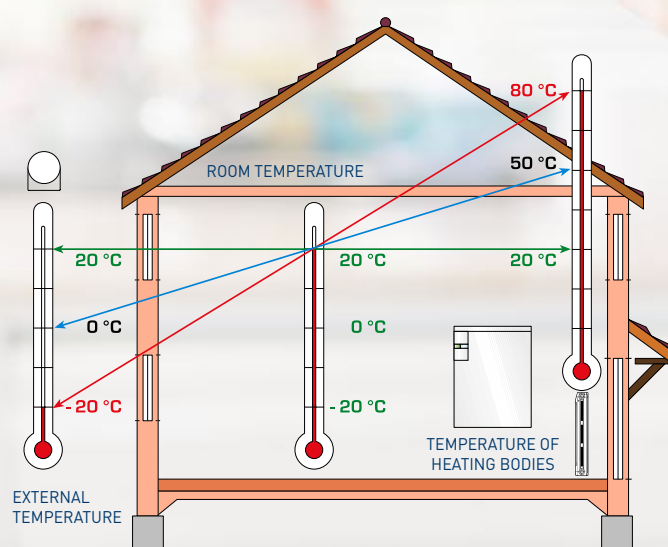
LOGO ErP

- › Open chamber boiler with high-efficiency circulator pump
- › Integrated climate regulation
- › High and low temperature integrated circuit management (optional)

An expandable system

All boilers in the range allow climate regulation thanks to an external sensor (supplied standard for Atlantis HM ErP and Kombi Solar HE ErP) and help to reduce heating system operating costs.

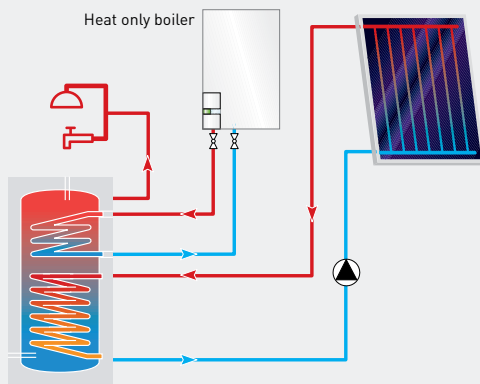
Two different thermostats can be connected to manage two circuits with differentiated temperatures. Using an optional kit that can be integrated into the boiler, the generators can satisfy all system needs (see table). All boilers are designed to allow combination with a solar thermal system. Using the InSOL kit, the boiler can manage a forced circulation solar system.



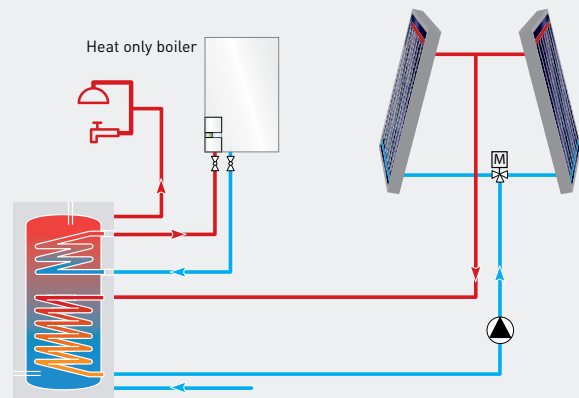
	Atlantis HM ErP		Kombi Solar HE ErP	Logo ErP	
	30 T 30/110	30/300		30/50	30/110
8100784 Kit 2 low temperature zones + pre-assembled high temperature zone		✓			
8100787 Kit 2 low temperature zones + pre-assembled high temperature zone	✓				
8100783 Kit low temperature zone + pre-assembled high temperature zone		✓			
8100786 Kit low temperature zone + pre-assembled high temperature zone	✓				
8100785 Kit 2 pre-assembled high temperature zones		✓			
8100788 Kit 2 pre-assembled high temperature zones	✓				
8100740 Kit second pre-assembled high temperature zone			✓		
8100741 Kit second pre-assembled low temperature zone			✓		
8100762 Kit low temperature zone + pre-assembled high temperature zone					✓
8100763 Kit 2 low temperature zones + pre-assembled high temperature zone					✓
8100764 Kit 2 pre-assembled high temperature zones					✓
8092235 InSOL kit	✓	✓ *	✓ *	✓	✓

* The InSol kit is supplied standard with the Atlantis HM 30/300 ErP and Kombi Solar HE ErP models

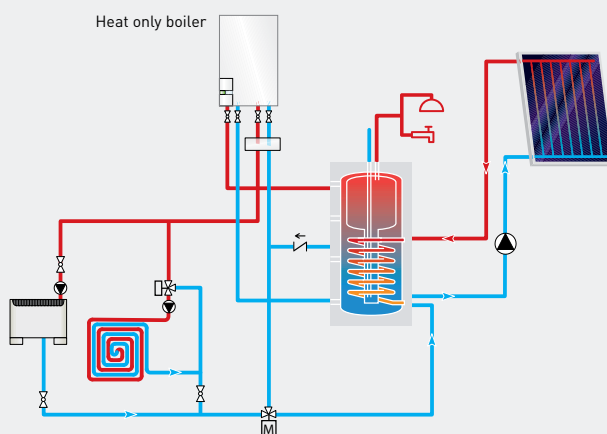
EXAMPLES OF SOLAR SYSTEMS CONTROLLED BY KIT INSOL COD. 8092235



1 **FORCED SOLAR SYSTEM
(ALSO DRAIN BACK)
WITH HEAT ONLY BOILER**

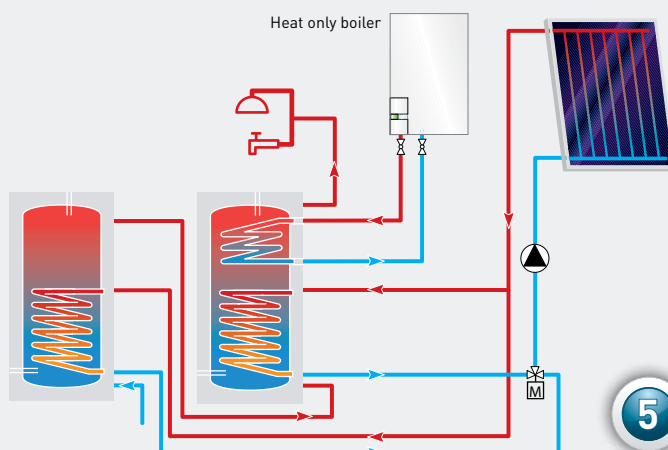
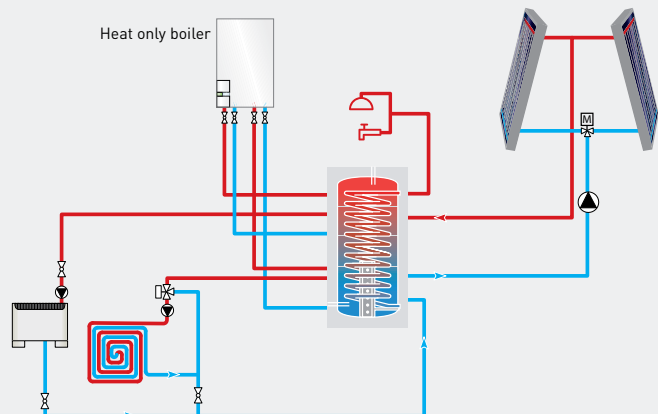


2 **DOUBLE-PITCHED FORCED SOLAR SYSTEM
WITH HEAT ONLY BOILER**



3 **FORCED SOLAR SYSTEM
WITH TANK IN TANK WITH BOILER
HEAT ONLY
PER-HEATED RETURN**

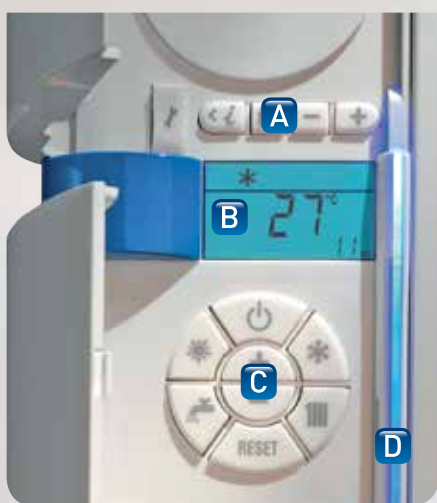
4 **FORCED SOLAR SYSTEM
DOUBLE-PITCHED WITH PIPE IN TANK
WITH HEAT ONLY BOILER
DIRECT HEATING**



5 **FORCED SOLAR SYSTEM
WITH PRIORITY DOUBLE STORAGE
WITH HEAT ONLY BOILER**

Modern and practical interface

The floor-standing range is equipped with a control panel that characterizes the look of the boiler, in two separate areas one for the user and one for the installer. Underneath the lower hatch, there is an 8-button keypad allowing intuitive control by the user. Above the LCD display, the hatch hides an area reserved to installers/technicians, characterised by four buttons and a PC data connection port, in addition to a space for the eventual installation of a timer.



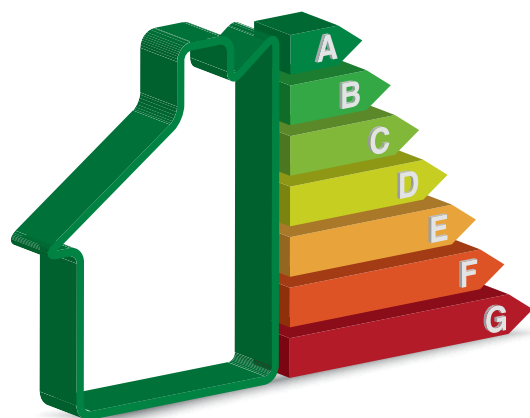
- A** INSTALLER INTERFACE
- B** BACKLIT DISPLAY SHOWING ALL THE MOST IMPORTANT INFORMATION
- C** USER INTERFACE
- D** LED STATUS INDICATOR
BLUE: IN OPERATION - RED: IN ALARM

Atlantis HM ErP High modulation

In recent years, the increased thermal efficiency of buildings has significantly reduced the thermal load of homes (30-35 Watt/m²).

For a home with a surface area of 100 m² an average output of 3.0-3.5 kW is enough, or even less in the case of smaller surface areas.

A traditional condensing boiler will therefore continuously turn on and off, partially offsetting the benefits of its high combustion efficiency. The Atlantis HM ErP output automatically and continuously varies between a minimum of 2.95 kW to a maximum of 29.5 kW. The high modulation minimises generator stop and start phenomena, improving the boiler's seasonal efficiency.



The average European home consumes 290 kWh/m² per year, while more efficient class A homes consume less than 30 kWh/m² per year.

SOURCE: "Sustainable Energy without the hot air" by David JC MacKay p.299.

The ULTRA-LOW MINIMUM OUTPUT of the Atlantis HM ErP (2.95 kW) is particularly advantageous when heating new, high energy efficient homes that require minimal power.

Atlantis HM ErP

High-efficiency circulator pump

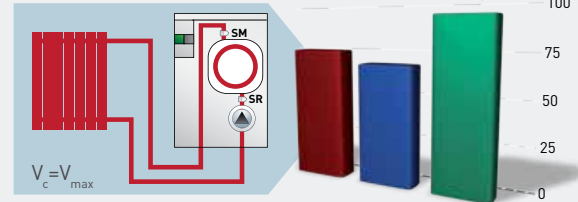


Maximum energy efficiency in condensing boilers is obtained when the system return temperature is 45-50°C.

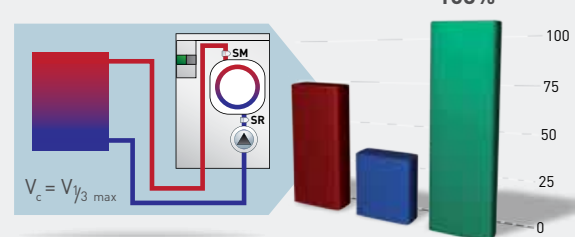
For this reason it is common thought that a condensing boiler should be connected to low temperature heating systems.

With Atlantis HM ErP, the flow rate is automatically reduced if necessary, thereby increasing the energy transferred to the house, while reducing the temperature of the return water. Therefore, provided the initial settings are correct, Atlantis HM ErP is able to self-adjust and continuously work in a condensing regime, regardless of the type of system it serves. The variable flow rate circulator pump is therefore extremely useful when replacing boilers in traditional radiator systems, for which it is advised not to use older versions of condensing boilers.

HIGH CIRCULATOR PUMP SPEED



LOW CIRCULATOR PUMP SPEED



■ Delivery T (°C) ■ Return T (°C) ■ Efficiency (%)

Thanks to the variable speed circulator pump (V_c) and control system, *Atlantis HM ErP* guarantees continuous maximum combustion efficiency even in cases where old boilers that work with traditional radiator systems are replaced, offering performance levels comparable to a condensing boiler connected to a floor heating system.

Atlantis HM ErP

Cascade management, ModBus protocol

Atlantis HM ErP floor-standing boilers can* be connected in a cascade to deliver maximum power equal to the sum of the outputs of each generator.

Up to 8 Atlantis HM ErP boilers can be managed in a cascade, thereby developing a heat source able to provide an output between a MINIMUM of 2.9 kW up to a MAXIMUM of $29.5 \times 8 = 236$ kW.

Moreover, Atlantis HM ErP, whether alone or in a cascade, can be integrated into a more complex climate control system equipped with its own control and regulation device, able to communicate with Atlantis HM ErP using the MODBUS protocol.

SIME KIT FOR CASCADE MANAGEMENT

8092243 RS-485 kit for cascade management (1 per generator)

8092244 RS-485 kit for MODBUS communication

* One RS-485 kit is needed for cascade management and one RS-485 kit to connect one Atlantis HM ErP boiler in a MODBUS network.



Atlantis HM ErP

An answer to every need



Atlantis HM ErP is available in 5 versions:

- **Atlantis HM 30 T ErP**: heating only version with incorporated diverter valve for combination with external water tanks
- **Atlantis HM 30 T SP ErP**: heating only version with incorporated diverter valve for combination with external water tanks and plate exchanger to insulate boiler circuit from system
- **Atlantis HM 30/50-30/110 ErP**: combined versions with 50- and 110-litre stainless steel water tank
- **Atlantis HM 30/300 ErP**: combined version with 300-litre stainless steel dual coil water tank and integrated management of a forced solar thermal circuit



ATLANTIS HM 30 T ErP

This is the most compact boiler in the range and can be directly connected to the heating system. It includes a diverter valve to allow connection to an external domestic hot water storage tank. If a dual coil storage tank is selected, a forced solar thermal system can be managed using the optional InSol kit cod 8092235.



ATLANTIS HM 30 T SP ErP

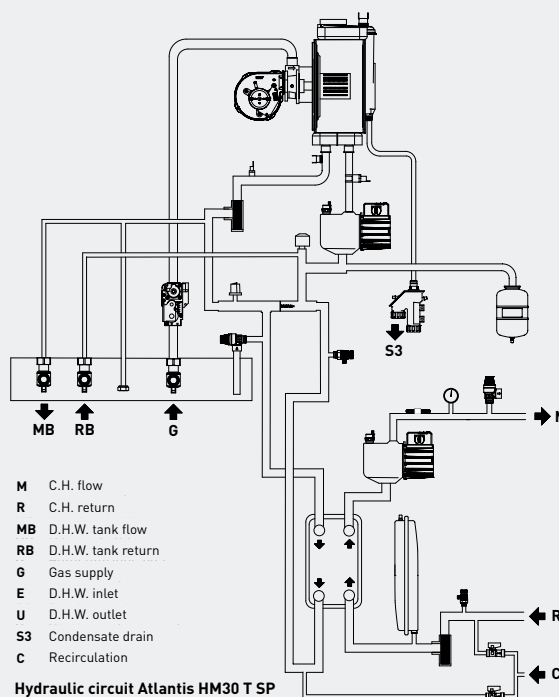
It has the same characteristics as the Atlantis HM 30 T ErP, but is supplied standard with a plate exchanger that separates the combustion chamber from the rest of the heating circuit. This version is particularly suited to replace generators connected to older heating systems, in which dirt and debris may have accumulated over the years. Atlantis HM 30 T SP ErP on the system side is complete with pump, expansion tank, filter, safety valve, inlet valve, delivery sensor and hydrometer.

ATLANTIS HM 30/50 ErP

Includes a 50-litre stainless steel storage tank and is the smaller of the models able to produce domestic hot water. It is the boiler for users with limited space, looking for high comfort and low consumption.

ATLANTIS HM 30/110 ErP

With a 110-litre stainless steel storage tank, this model is able to handle simultaneous requests of hot water from two bathrooms. It is the heat generator most suited to replace older floor-standing boilers in medium to large-sized homes.



ATLANTIS HM 30/300 ErP

The most complete product in the range covers part of the hot water production using renewable solar energy.

The 300-litre stainless steel hot water storage tank in Atlantis HM 30/300 ErP features a second coil for connection to solar collectors.

The collectors are the only components not included, everything else needed to develop the solar system is in the boiler: solar hydraulic unit, expansion tank, solar control unit, sensors.

Atlantis HM 30/300 ErP is the must-have solution for new medium and large-sized homes where legislation prescribes the use of renewable energy, and is the most valuable investment when refitting existing homes.

**BOILER BODY
MURELLE HM ErP
30 KW**

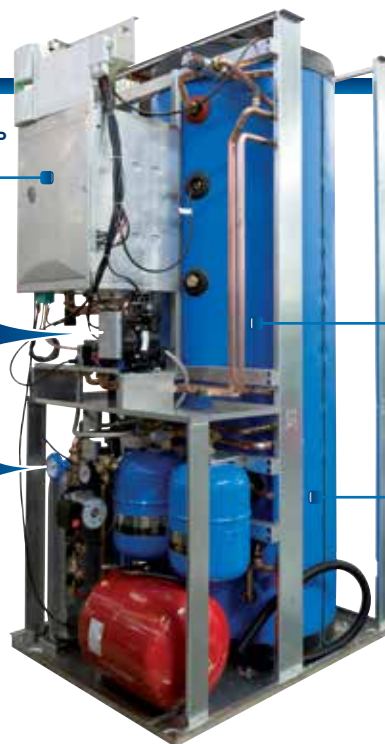
**MODULATING
SYSTEM
CIRCULATOR
PUMP**



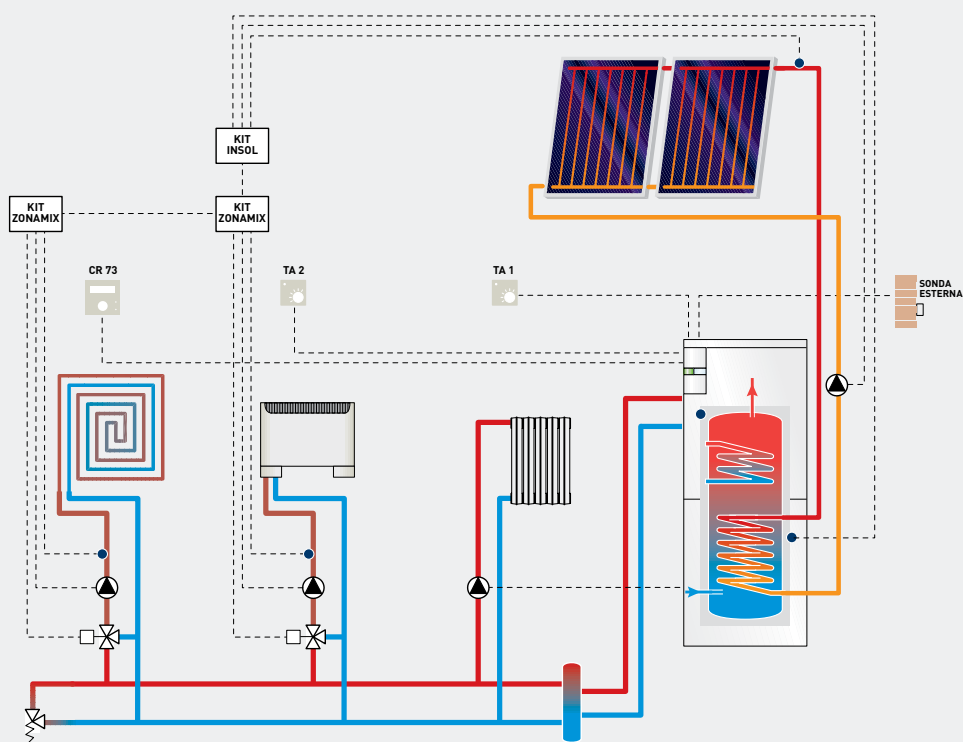
**INTEGRATED
MANAGEMENT
OF ONE FORCED SOLAR
THERMAL CIRCUIT**

**IT CAN ACCOMMODATE
OPTIONAL KITS
FOR 3-ZONE
MANAGEMENT,
INCLUDING
2 MIXED ZONES**

**300-LITRE
DUAL COIL
STAINLESS STEEL
SOLAR STORAGE
TANK**



ATLANTIS 30/300 ErP: multizone system with kit cod. 8100784 and kit cod. 8092235



Kombi Solar HE ErP

Condensing and solar thermal integration



Kombi Solar HE ErP is an innovative solution for the management of low consumption residential heating systems, efficiently combining condensing technology and solar thermal integration in small dimensions.

The boiler is composed by three fundamental parts: the condensing heat exchanger, the 200-litre dual coil storage tank for the heating circuit and the solar thermal system components.

The primary storage tank exploits the solar energy to heat both the domestic hot water and heating system water, thereby increasing energy savings. In addition to guaranteeing maximum solar thermal integration, Kombi Solar HE ErP is able to manage multiple zones through optional kits that can be integrated into the casing. All this is managed by a single integrated electronic control unit in the boiler, through an intuitive user interface with LCD backlit semigraphic display . The system features variable temperature climate regulation.



Kombi Solar HE ErP

Technology at arm's reach



30 KW CONDESING
HEAT EXCHANGER

18-LITRE SOLAR
EXPANSION TANK

4-LITRE SOLAR DOMESTIC
HOT WATER EXP. TANK

HYDRAULIC COLLECTOR
WITH HIGH HYDRAULIC HEAD
SYSTEM PUMP

ELECTRONIC CONTROL UNIT
WITH SOLAR CIRCUIT REGULATION
AND ZONE MANAGEMENT

ZONE KIT (ACCESSORY)

SOLAR UNIT COMPLETE
WITH CIRCULATOR PUMP,
SOLAR VALVE
AND FLOW REGULATOR

PRIMARY 200-LITRE DUAL COIL
WATER HEATER



Detail of water heater coils

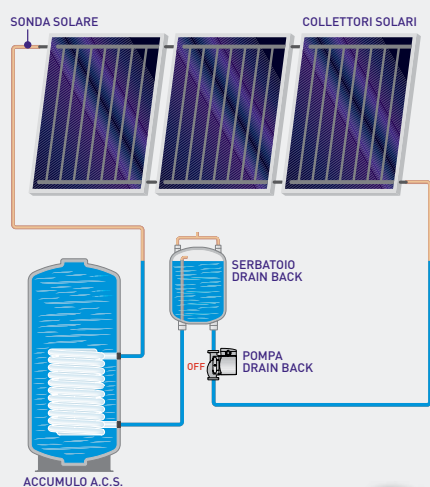
Kombi Solar HE DB ErP (Drain Back)

Automatic solar collector draining

The Drain Back version of the Kombi Solar HE ErP improves the efficiency of the solar system during the winter period when solar irradiation is scarce and the demand for hot water is high for both domestic and heating use. To improve solar performance in the colder months, Kombi Solar HE DB ErP can be connected to a higher number of collectors without damaging the solar system in the summer months, when irradiation reaches

its peak. To achieve this result, Kombi Solar HE DB ErP automatically drains the solar collectors when the system is inactive. In this way, the heat-transfer fluid (generally water) of the collectors is drained when solar heating reaches high levels that would otherwise damage the system.

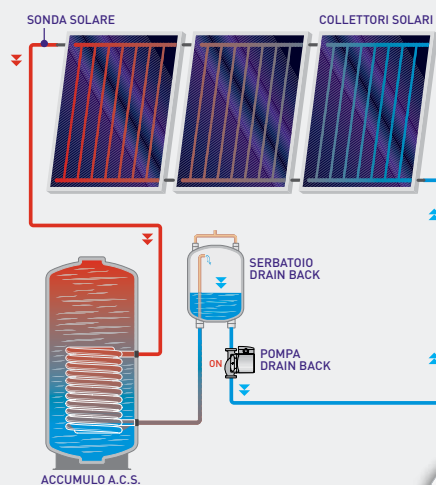
DRAIN BACK OPERATING DIAGRAM



COLD SOLAR STORAGE

The Drain Back pump is idle. By way of gravity, the heat-transfer fluid (water without glycols) drains the solar collectors and pipes, filling up the Drain Back tank below.

1



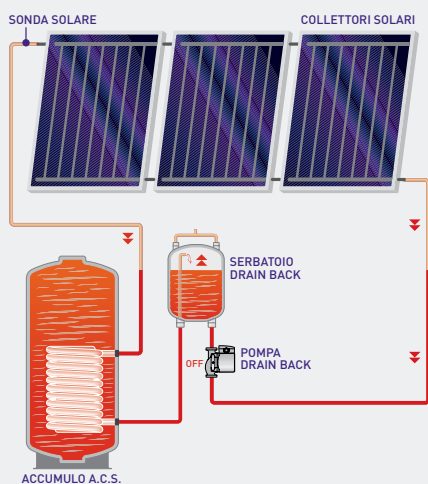
HEAT TRANSFER FROM COLLECTORS TO SOLAR STORAGE TANK

When the temperature between the collectors and solar tank reaches the set value, the Drain Back pump will start to work.

The pipes and solar collectors will fill up with heat-transfer fluid. The Drain Back tank will be partially emptied.

The solar energy collected by the collectors heats the heat-transfer fluid, which transfers heat to the solar storage tank.

2



3

HOT SOLAR STORAGE

When the solar storage temperature reaches the desired value, the Drain Back pump stops. The heat-transfer fluid stops, and falls by way of gravity, draining the solar collectors and pipes and collecting in the lower part of the system (Solar Storage and Drain Back tank). If the solar storage temperature falls due to the single or combined effect of:

- d.h.w. withdrawal
 - primary water pre-heating
 - cooling
- the procedure will start again from step 2.



Logo EV

The reliability of cast iron

Cast iron is an alloy whose properties remain unaltered over time, and which is synonymous with reliability.

For Logo Erp, a cast iron heat exchanger was designed using a Genetic Algorithm logic; a sophisticated software allows maximum heat exchange and minimum head loss, optimising the

form, passage and surface of the body. Moreover, cast iron has high thermal inertia allowing more energy savings than other heat exchangers made with other materials.

Logo EV

Ecological and efficient systems

The boilers are equipped with efficient combustion systems that reduce gas consumption and control pollutant emissions.

The Logo ErP combustion system is defined as "hyperstoichiometric" or natural premixing, allowing combustion in the absence of secondary air and a constant air/gas ratio at any output, thanks to a special burner able to work with limited excess air; it also minimizes CO and NOx levels. Pollutant emissions fall largely below the limits of the strictest European regulations and boilers are classified as Class 5, the least polluting class established by regulations UNI EN 297 and 483.



Technical and safety features

	Atlantis HM ErP	Kombi Solar HE ErP	Logo ErP
Continuous electronic flame modulation in heating and domestic hot water mode	✓	✓	✓
Automatic regulation of maximum start-up power in heating mode	✓	✓	
Management of two heating circuits with different temperatures		✓	✓
Management of three heating circuits with different temperatures	✓		
Antifreeze protection for heating and domestic hot water circuit	✓	✓	✓
Automatic ignition with flame ionisation	✓	✓	✓
Water/vapour exchanger in stainless steel	✓	✓	
Expansion tank for heating system	✓	✓	✓
Expansion tank for domestic hot water system	✓ ⁽¹⁾	✓	✓
Expansion tank system side	✓ ⁽²⁾		
Low NOx emission premix burner	✓	✓	
High-efficiency system circulator pump	✓	✓	✓
Post system pump circulation	✓	✓	✓
Post fan ventilation	✓	✓	
Double cut-off electric valve, which in the absence of a flame, interrupts the gas supply	✓	✓	✓
Automatic bypass on heating circuit	✓	✓	
Sweep function that facilitates combustion analysis	✓	✓	✓
Solar circulator pump	✓ ⁽³⁾	✓	
Integrated climate regulation	✓	✓	✓
External temperature sensor supplied standard	✓	✓	
INSOL solar mini-circuit board for complete management of solar system	✓ ⁽³⁾	✓	
12-litre solar expansion tank with nitrile rubber membrane	✓ ⁽³⁾	✓ ⁽⁴⁾	
Drain Back system to prevent overheating phenomena and/or the freezing of the solar fluid		✓ ⁽⁵⁾	
Thermostatic mixer	✓ ⁽³⁾	✓	
Superior hydraulic connections kit (optional)		✓	
Possibility to connect up to three collectors without stagnation		✓ ⁽⁵⁾	
Numeric code self-diagnostics	✓	✓	✓
Safety thermostat	✓	✓	✓
Vapour sensor to protect the polypropylene drain pipe	✓	✓	✓
Vapour safety device			✓
3 bar system safety valve	✓	✓	✓
7 bar boiler safety valve	✓ ⁽⁶⁾	✓	✓
Low water level safety	✓	✓	✓
Inspectionable filter at domestic hot water inlet	✓	✓	

(1) Not included in heat only versions

(2) Atlantis HM 30 T SP version only

(3) Atlantis HM 30/300 version only

(4) Kombi Solar HE version only

(5) Kombi Solar HE DB (Drain Back) version only

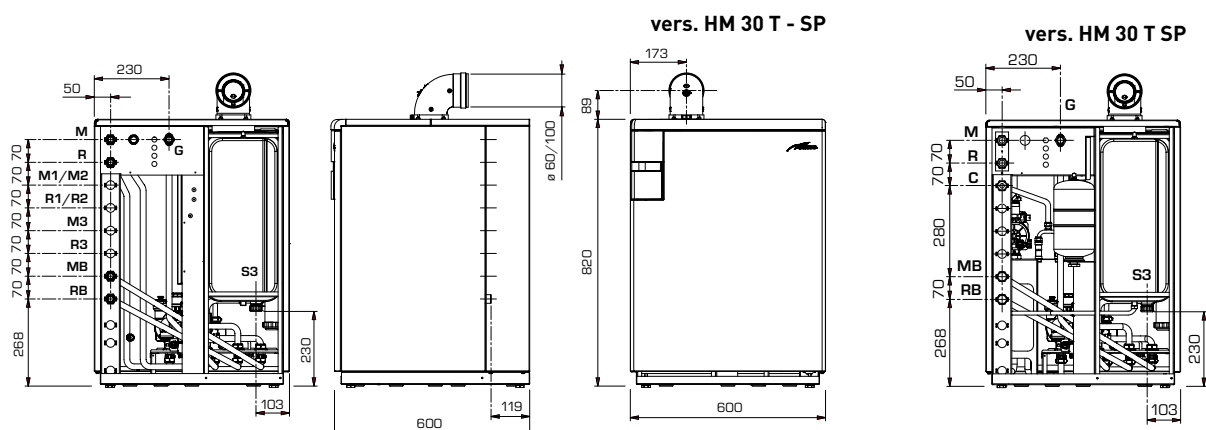
(6) Only versions with boiler

Atlantis HM ErP

		ATLANTIS HM ErP				
MODEL		30 T	30 T SP	30/50	30/110	30/300
Nominal heat output (80-60°C)	kW	28,8	28,8	28,8	28,8	28,8
Nominal heat output (50-30°C)	kW	31,4	31,4	31,4	31,4	31,4
Minimum heat output (80-60°C)	kW	2,7	2,7	2,7	2,7	2,7
Minimum heat output (50-30°C)	kW	3,1	3,1	3,1	3,1	3,1
Useful power output (80-60°C)	%	97,6	97,6	97,6	97,6	97,6
Useful power output (50-30°C)	%	106,4	106,4	106,4	106,4	106,4
Useful perform. at 30% of the load (40-30°C)	%	107,2	107,2	107,2	107,2	107,2
Heating energy efficiency class		A	A	A	A	A
Domestic hot water energy efficiency class		-	-	B	B	B
Domestic hot water load profile		-	-	XL	XXL	XXL
Heating sound power	dB (A)	45	45	47	42	41
Absorbed power (Q _n max / Q _n min)	W	98 / 62	143 / 62	98 / 62	98 / 62	98 / 62
Electrical protection class	IP	X4D	X4D	X4D	X4D	X4D
Heating regulation range	°C	20÷80	20÷80	20÷80	20÷80	20÷80
Boiler water content	l	6,4	4,5	9,7	9,7	5,8
Max operating pressure	bar	3	3	3	3	3
Max operating temperature	°C	85	85	85	85	85
Heating expansion vessel capacity/pressure	l/bar	10/1	2,5/1,5	10/1	10/1	10/1
System side expansion vessel capacity/pressure	l/bar	-	10/1	-	-	-
Domestic hot water setting range	°C	-	-	10÷65	10÷65	10÷65
Specific hot water flow rate (EN 13203)	l/min	-	-	18,7	25,1	28,5
Continuous hot water flow rate ΔT 30°C	l/min	-	-	13,8	13,8	13,8
Min/max hot water pressure	bar	-	-	0,2/7,0	0,2/7,0	0,2/7,0
D.H.W. storage tank capacity	l	-	-	50	110	300
D.H.W. expansion vessel	l	-	-	2,5	4,0	16 (8.0 x 2)
Time of recovery from 25 to 55°C	min.	-	-	6'20"	12'45"	16'30"
NOx class		5 (<70 mg/kWh)	5 (<70 mg/kWh)	5 (<70 mg/kWh)	5 (<70 mg/kWh)	5 (<70 mg/kWh)
Boiler net weight	kg	58	58	74	106	173
Maximum rectilinear length ø 60/100*	m	5	5	5	5	5
Maximum rectilinear length ø 80/125*	m	10	10	10	10	10
Maximum rectilinear length ø 80*	m	50 + 50	50 + 50	50 + 50	50 + 50	50 + 50
Maximum rectilinear length ø 60*	m	50 + 50	50 + 50	50 + 50	50 + 50	50 + 50

* horizontally with a 90° curve

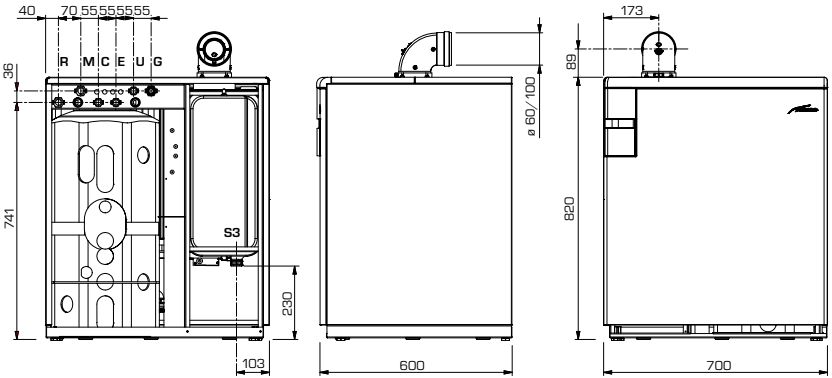
Overall dimensions



Hydraulic connections			
M	Zone 1 system flow HIGH	G 3/4"	R3 Zone 3 system return LOW*
R	Zone 1 system return HIGH	G 3/4"	MB D.H.W. storage tank flow
M1	Zone 2 system flow HIGH*	G 3/4"	RB D.H.W. storage tank return
R1	Zone 2 system return HIGH*	G 3/4"	G Gas supply
M2	Zone 2 system flow LOW*	G 3/4"	C System filling
R2	Zone 2 system return LOW*	G 3/4"	S3 Condensate drain
M3	Zone 3 system flow HIGH*	G 3/4"	

* with optional kits

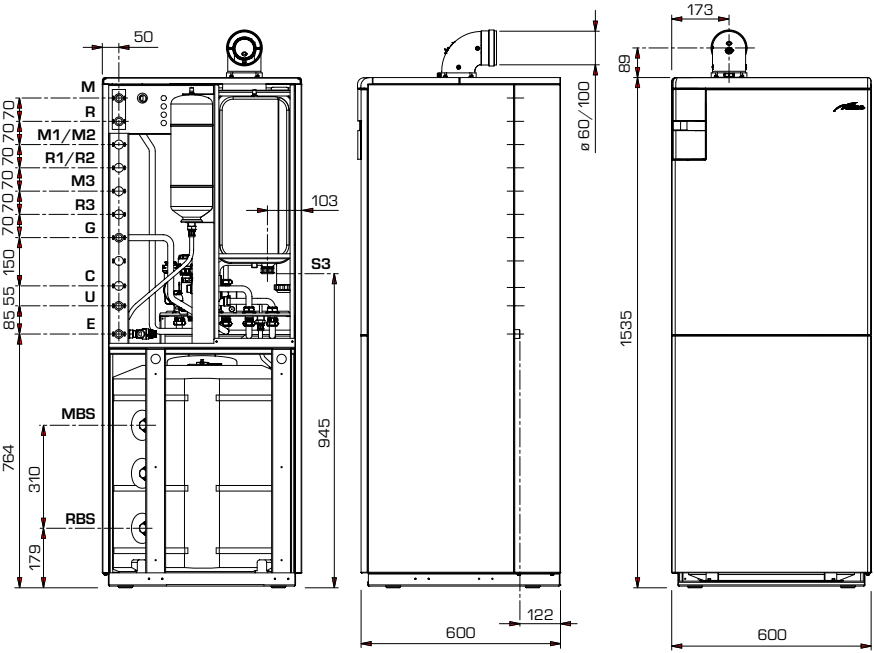
vers. HM 30/50



Hydraulic connections

M	Zone 1 system delivery HIGH	G 3/4"
R	Zone 1 system return HIGH	G 3/4"
E	D.H.W. inlet	G 1/2"
U	D.H.W. outlet	G 1/2"
G	Gas supply	G 3/4"
C	Recirculation	G 1/2"
S3	Condensate drain	ø 25

vers. HM 30/110

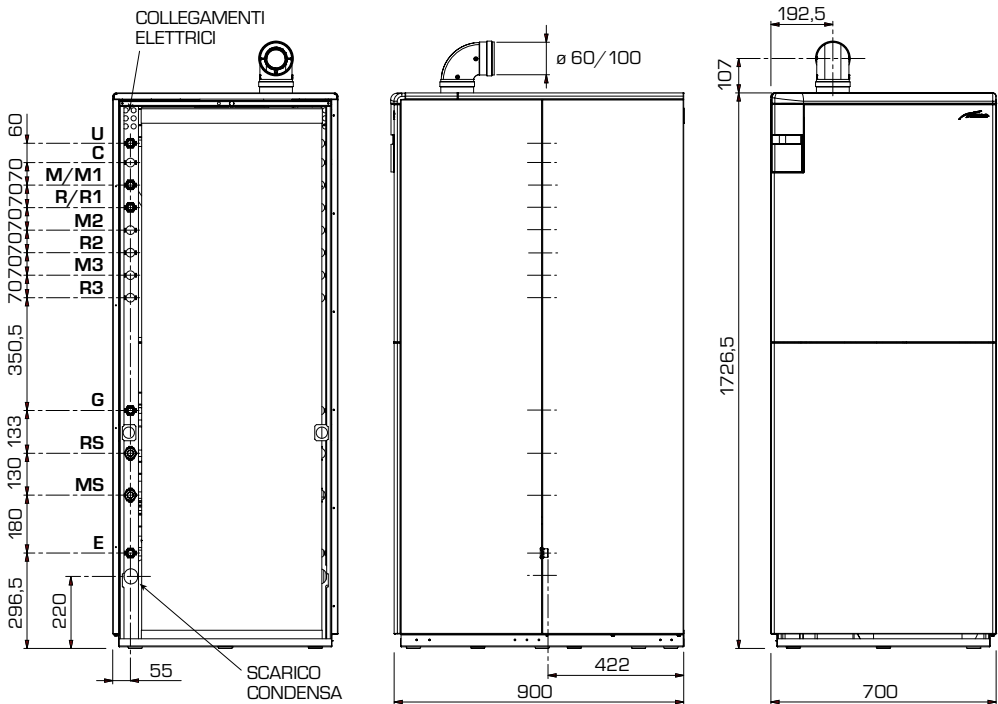


Hydraulic connections

M	Zone 1 system delivery HIGH	G 3/4"
R	Zone 1 system return HIGH	G 3/4"
M1	Zone 2 system delivery HIGH*	G 3/4"
R1	Zone 2 system return HIGH*	G 3/4"
M2	Zone 2 system delivery LOW*	G 3/4"
R2	Zone 2 system return LOW*	G 3/4"
M3	Zone 3 system delivery HIGH*	G 3/4"
R3	Zone 3 system return LOW*	G 3/4"
E	D.H.W. inlet	G 3/4"
U	D.H.W. outlet	G 3/4"
G	Gas supply	G 3/4"

* with optional kits

vers. HM 30/300

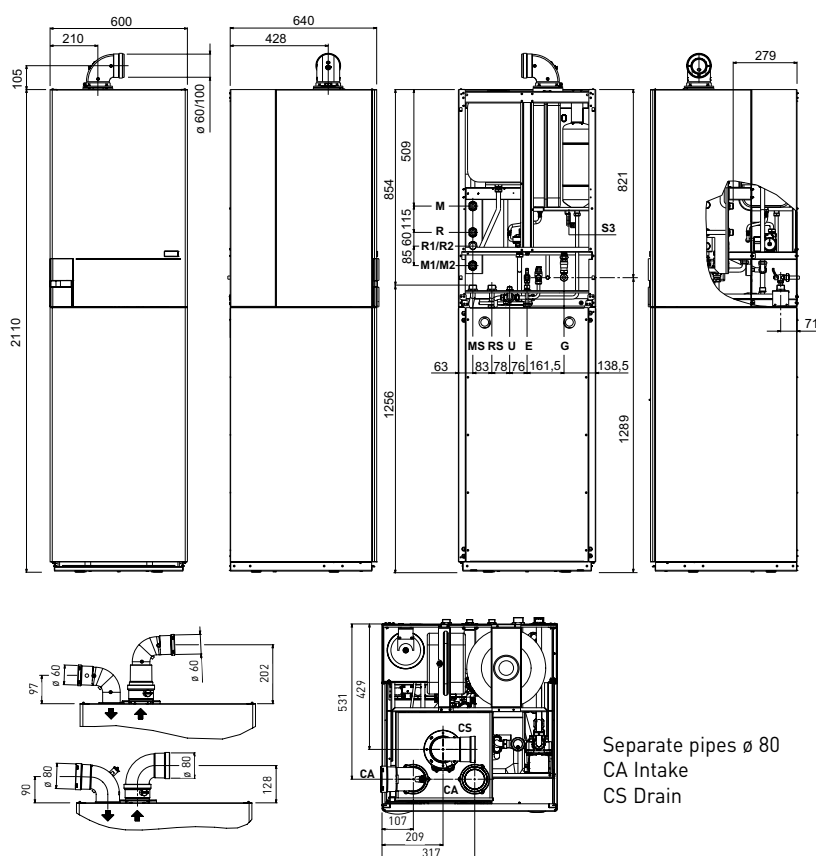


Kombi Solar HE ErP

		KOMBI SOLAR HE ErP	
MODEL		30	30 DB
Minimum/Nominal heat output 80-60°C	kW	5,9/28,9	5,9/28,9
Minimum/Nominal heat output 50-30°C	kW	6,6/31,6	6,6/31,6
Minimum/Nominal heat input*	kW	6,2/29,5	6,2/29,5
Min/max useful output 80-60°C	%	95/98	95/98
Min/max useful output 50-30°C	%	107/107	107/107
Useful perform. at 30% of the load (40-30°C)	%	107,7	107,7
Heating energy efficiency class		A	A
Domestic hot water energy efficiency class		B	B
Domestic hot water load profile		XL	XL
Heating sound power	dB (A)	51	51
Absorbed power (Q _n max / Q _n min)	W	86 / 58	86 / 58
Electrical protection class	IP	X4D	X4D
Heating setting range	°C	20÷80	20÷80
Boiler water content	l	206	206
Max operating pressure	bar	3	3
Exp. vessel preload capacity and pressure	l/bar	12/1	12/1
Solar expansion vessel capacity	l	18	18
Solar tank capacity	l	200	200
Domestic hot water setting range	°C	10÷65	10÷65
Specific hot water flow rate (EN 13203)	l/min	17,0	17,0
Continuous hot water flow rate ΔT 30°C	l/min	13,6	13,6
Min/max hot water pressure	bar	0,2/7,0	0,2/7,0
D.H.W. expansion tank capacity	l	4	4
NOx emission class		5 (<70 mg/kWh)	5 (<70 mg/kWh)
Max horizontal rectilinear length pipe ø 60/100	m	5,0	5,0
Max horizontal rectilinear length pipe ø 80/125	m	10,0	10,0
Max horizontal rectilinear length pipe ø 80+80	m	35 + 35	35 + 35
Max horizontal rectilinear length pipe ø 60+60	m	7 + 7	7 + 7
Boiler net weight	kg	180	225

* Thermal power in heating mode is calculated using the Lower Calorific Value (LCV)

Overall dimensions



Hydraulic connections

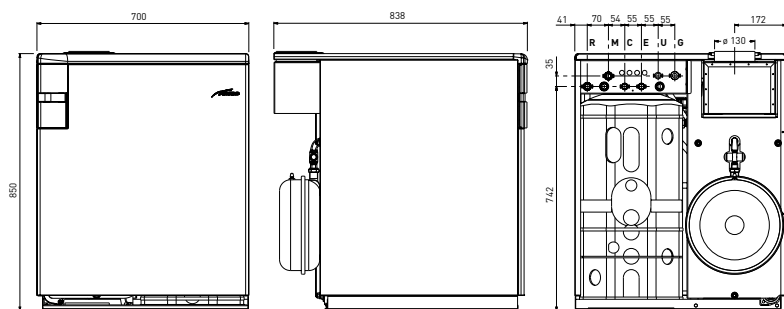
M	Zone 1 system flow	3/4"
M1	Zone 2 system flow HIGH	3/4"
M2	Zone 2 system flow LOW	3/4"
R	Zone 1 system return	3/4"
R1	Zone 2 system return HIGH	3/4"
R2	Zone 2 system return LOW	3/4"
G	Gas supply	3/4"
E	D.H.W. inlet	1/2"
U	D.H.W. outlet	1/2"
MS	Solar collector flow	1"
RS	Solar collector return	1"
S3	Condensate drain	ø 25

Logo ErP

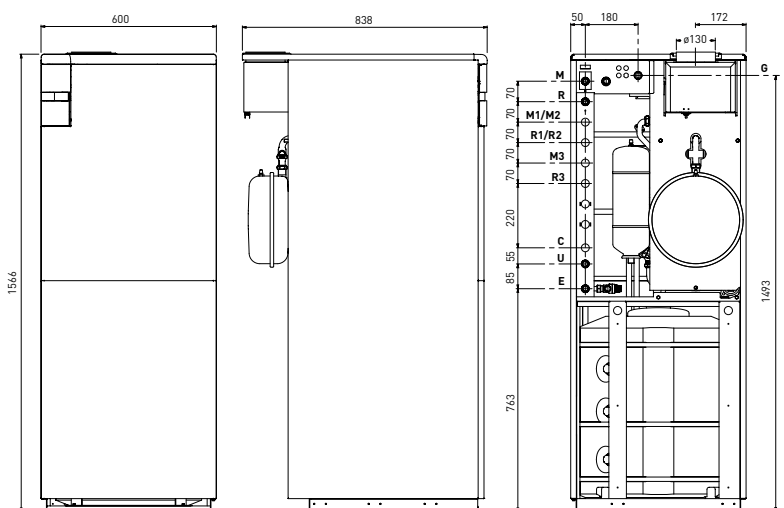
		LOGO ErP	
MODEL		30/50	30/110
Nominal heat output	kW	29,8	29,8
Minimum heat output	kW	24,4	24,4
Nominal heat input*	kW	31,8	31,8
Minimum heat input*	kW	26,1	26,1
Rated output	%	93,7	93,7
Useful perform. at 30% of the load (40-30°C)	%	94	94
Heating energy efficiency class		C	C
Domestic hot water energy efficiency class		B	B
Domestic hot water load profile		XL	XL
Heating sound power	dB (A)	59	54
Absorbed power (Qn max / Qn min)	W	58 / 56	58 / 56
Electrical protection class	IP	X2D	X2D
Max operating pressure	bar	4	4
Max operating temperature	°C	85	85
Boiler water content	l	23,8	24,0
Elements in cast iron	no.	5	5
Heating temperature regulation	°C	20÷80	20÷80
Heating expansion tank capacity/pressure	l/bar	10/1	10/1
Max boiler operating pressure	bar	7	7
Specific hot water flow rate (EN 13203)	l/min	17,5	24,8
Continuous hot water flow rate ΔT 30°C	lt/hr	864	864
Boiler capacity	l	50	110
Time of recovery from 25 to 55°C	min.	9'18"	15'05"
D.H.W. temperature regulation	°C	10÷65	10÷65
D.H.W. expansion tank capacity	l	2,5	4,0
NOx class		5 (<70 mg/kWh)	5 (<70 mg/kWh)
Boiler net weight	kg	198	226

* Thermal power in heating mode is calculated using the Lower Calorific Value (LCV)

Overall dimensions



vers. 30/50



vers. 30/110

Hydraulic connections	30/50	30/110
M Zone 1 system delivery HIGH	G 3/4"	G 3/4"
R Zone 1 system return HIGH	G 3/4"	G 3/4"
M1 Zone 2 system delivery HIGH*	–	G 3/4"
R1 Zone 2 system return HIGH*	–	G 3/4"
M2 Zone 2 system delivery LOW*	–	G 3/4"
R2 Zone 2 system return LOW*	–	G 3/4"
E D.H.W. inlet	G 1/2"	G 3/4"
U D.H.W. outlet	G 1/2"	G 3/4"
C Recirculation	G 1/2"	G 3/4"(*)
G Gas supply	G 3/4"	G 3/4"
CA Intake pipe ø 80		
CS Drain pipe ø 80 - Coaxial ø 60/100		

* with optional kits

Within the scope of the "20-20-20 Plan", the European Union has passed a number of known directives including:

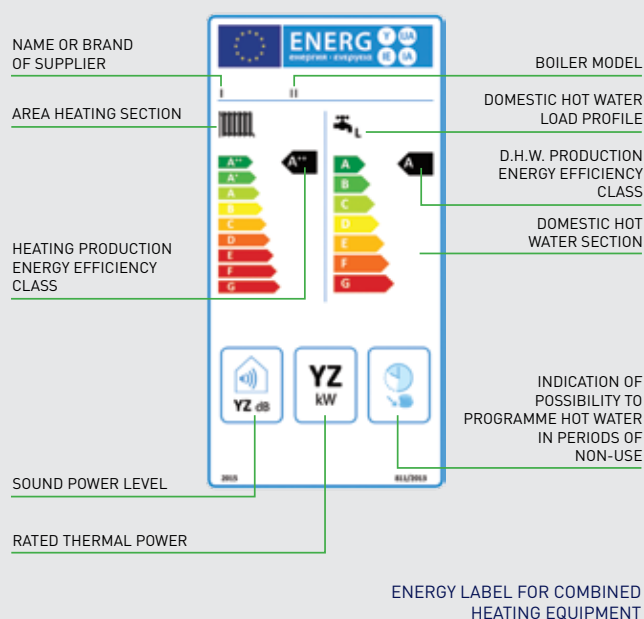
- › **Energy Related Products (ErP) Directive**, which regulates eco-compatible design
- › **Energy Labelling Directive (ELD)**, which regulates the labelling of devices based on their energy efficiency.

ECO-COMPATIBLE DESIGN (ErP)

Regulations covering ECO-COMPATIBLE DESIGN define the requirements that products must satisfy in order to be commercialised in the European market **from 26th September 2015**, specifically in regards to minimum heating and domestic hot water efficiency, maximum allowed polluting agents and noise levels. Moreover, **from 1st August 2015**, domestic hot water boilers can only be operated with high-efficiency circulator pumps.

ENERGY LABELLING (ELD)

From 26th September 2015, equipment with an output up to 70 kW and domestic hot water boilers with a volume up to 500 litres must carry **ENERGY LABELS** classifying products according to their level of efficiency, in a scale from **A+++** to **G**.



Fonderie Sime. S.p.A has obtained voluntary certifications ISO 14001 and OHSAS 18001, constituting international recognition of the commitment and responsibility assumed by Sime on matters of the environment and worker safety. Through the successful achievement of this objective, Sime has materialised its corporate mission, while undertaking to continuously improve its current activities and future processes.

